UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

September 1960

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

CONTENTS

	Page
Topographic Chart Nos. 4 and 8	2
Sea-surface Temperature Charts, Eastern Pacific Ocean September 1960	3

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Biological Laboratory
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San Diego 6, California

* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California.

TOPOGRAPHIC CHART NOS. 4 AND 8

Topographic Chart No. 4 which shows seamounts and protuberances rising above the ocean floor between 23° N. and 29° N. latitude and 120° W. to 130° W. longitude, and Topographic Chart No. 8 showing the character of the ocean floor in the area between 10° N. and 17° N. latitude and offshore to 90° W. longitude were printed in September. As was noted in our last issue of this publication, tropical tuna fishermen keeping logbook records for the Inter-American Tropical Tuna Commission may obtain copies from the Tuna Commission representative. Others desiring these charts who have not asked to receive the series routinely as each chart is released, may forward their requests to our San Diego address.

SEA-SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN SEPTEMBER 1960

Acknowledgements

The following organizations and stations contributed data for the September 1960 charts:

U. S. Weather Bureau, San Diego, California
U. S. Navy Fleet Weather Facility, North Island, San Diego, California
U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U. S. Navy Branch Hydrographic Offices, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California
U. S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U. S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington
U. S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington
Hopkins Marine Station, Pacific Grove, California, by J. P. Balesteri
Humboldt State College by George Allen
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; Luis Lynch at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; Gualberto Tapia at San Cristobal, Galapagos; Jose Lanchimba at La Libertad, Ecuador; Raul Celis at San Juan, Peru; C. Gamarra at Talara, Peru

Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California
Kelco Company, San Diego, California
Newport Beach Life Guard Service, Balboa, California
Oregon State College by Bruce Wyatt
Pacific Oceanographic Group, Nanaimo, B. C., by H. J. Hollister from observations by R. W. Collins at Kains Island Light, J. A. Bournazel at Cape St. James Light, B. Stuart at Amphitrite Point Light, J. M. Hartt at Langara Island Light
Scripps Institution of Oceanography, La Jolla, California, by Margaret Robinson and Hans Klein
Ships Frances Salman, Trolleggen, Avila and Santa Maria

Charts

Figure 1.--Mean sea-surface temperatures (°F) derived from approximately 8000 observations. Squares show temperature at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

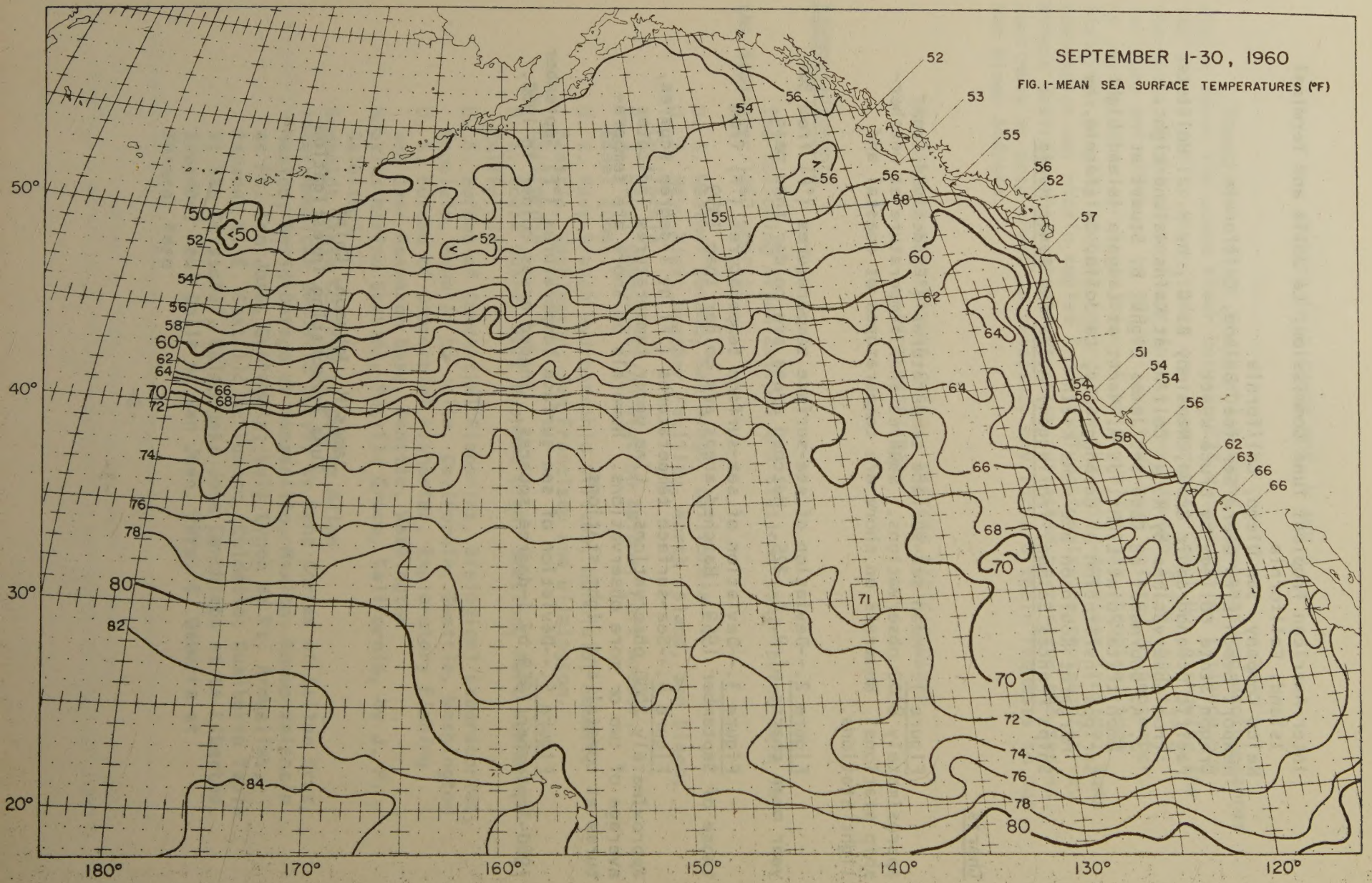
Figure 2.--Deviation of sea-surface temperatures (°F) from 30-year mean charts of H. O. 225. Hatched areas are colder than mean.

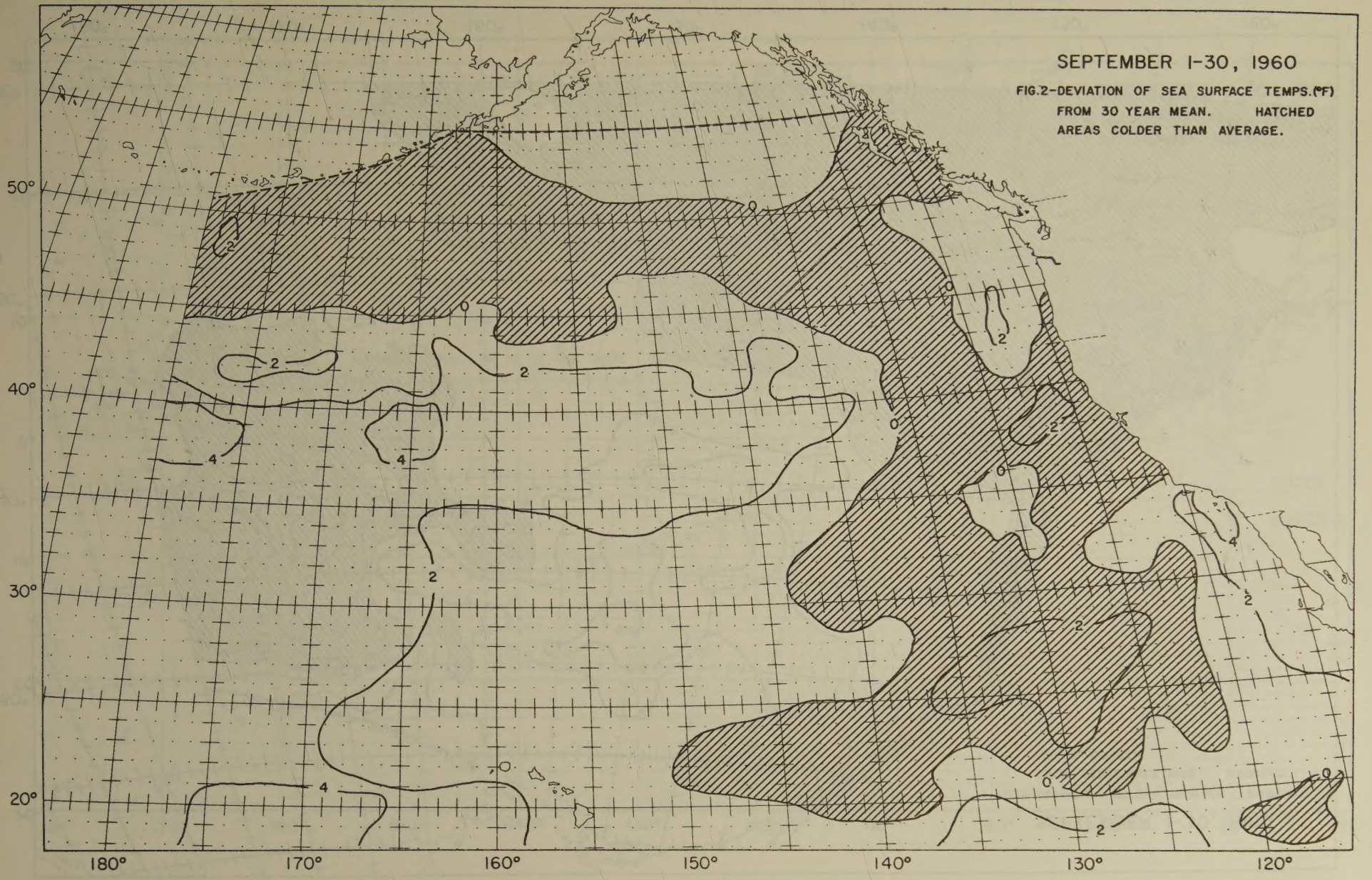
Figure 3.--Deviation of sea-surface temperatures (°F) from those of September 1959. Hatched areas are colder than 1959.

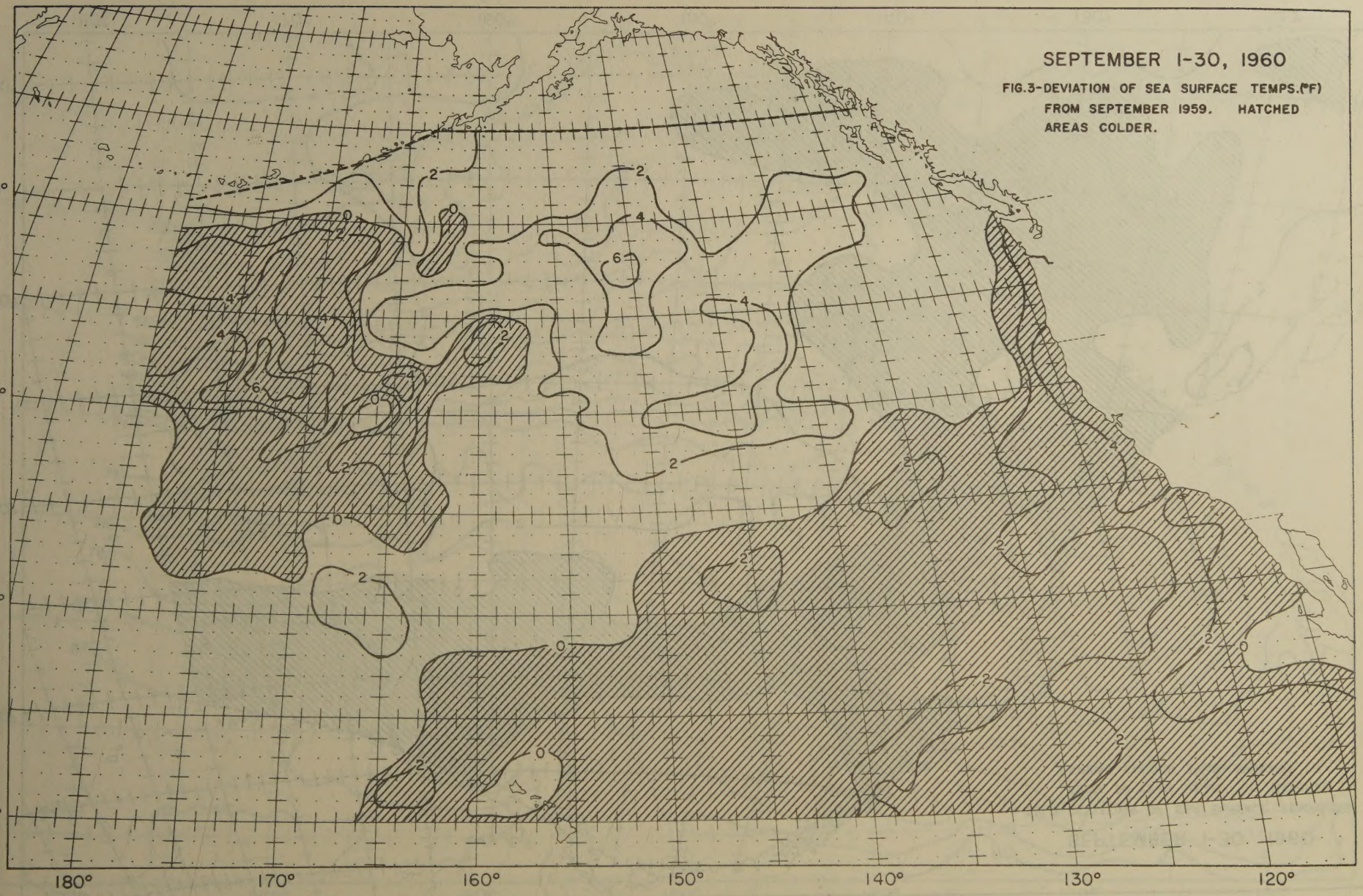
Figure 4.--Sea-surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

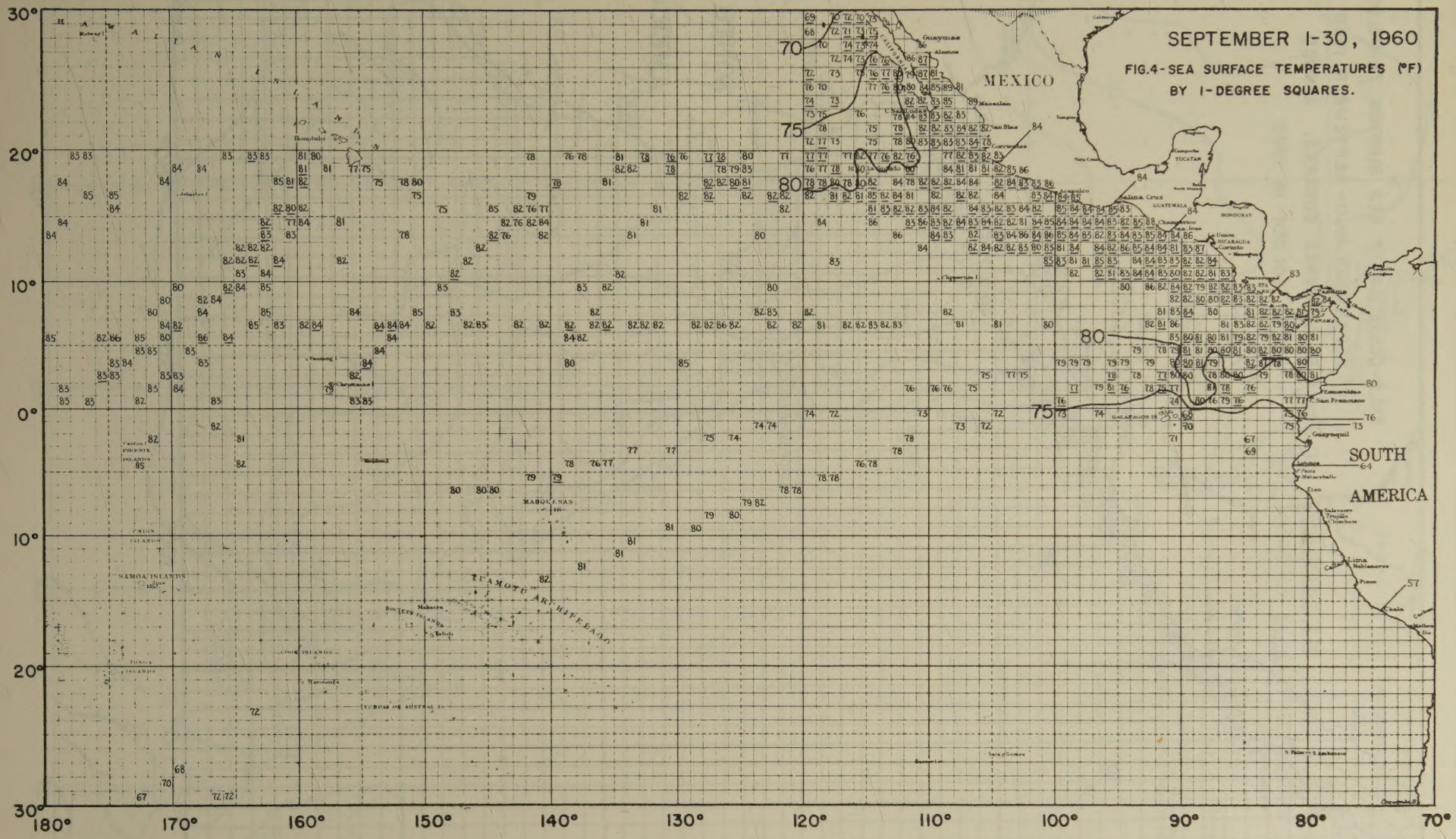
Figure 5.--Deviation of sea-surface temperatures (°F) September 1960-September 1959 by 1-degree squares. Shaded areas colder in 1960.

James H. Johnson, Chief
Tuna Forecasting Investigation


SEPTEMBER 1-30, 1960
FIG. 1- MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
55
71


SEPTEMBER 1-30, 1960
FIG.2-DEVIATION OF SEA SURFACE TEMPS.(°F) FROM 30 YEAR MEAN. HATCHED AREAS COLDER THAN AVERAGE.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


SEPTEMBER 1-30, 1960
FIG.3-DEVIATION OF SEA SURFACE TEMPS.(°F) FROM SEPTEMBER 1959. HATCHED AREAS COLDER.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


SEPTEMBER 1-30, 1960
FIG.4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°

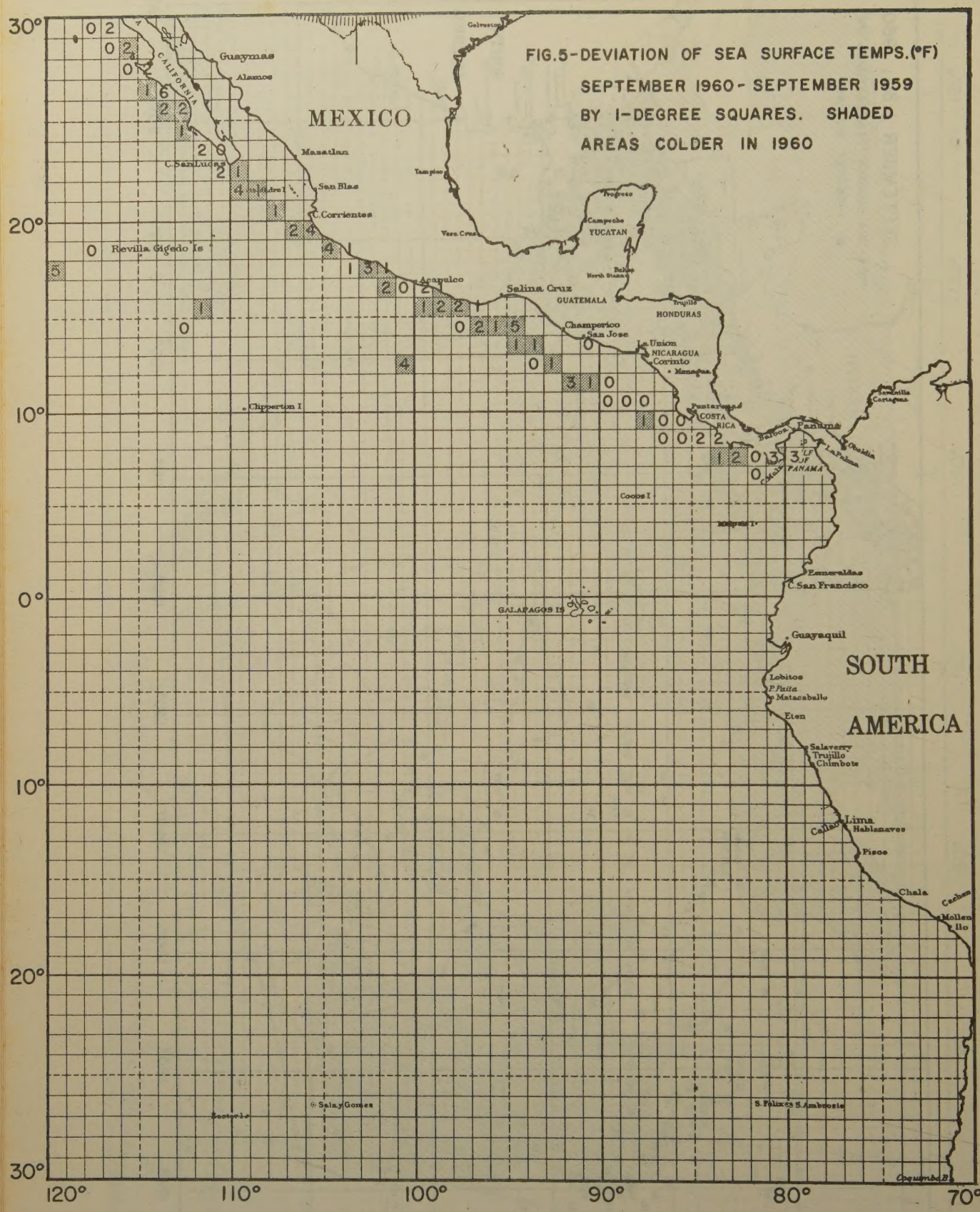
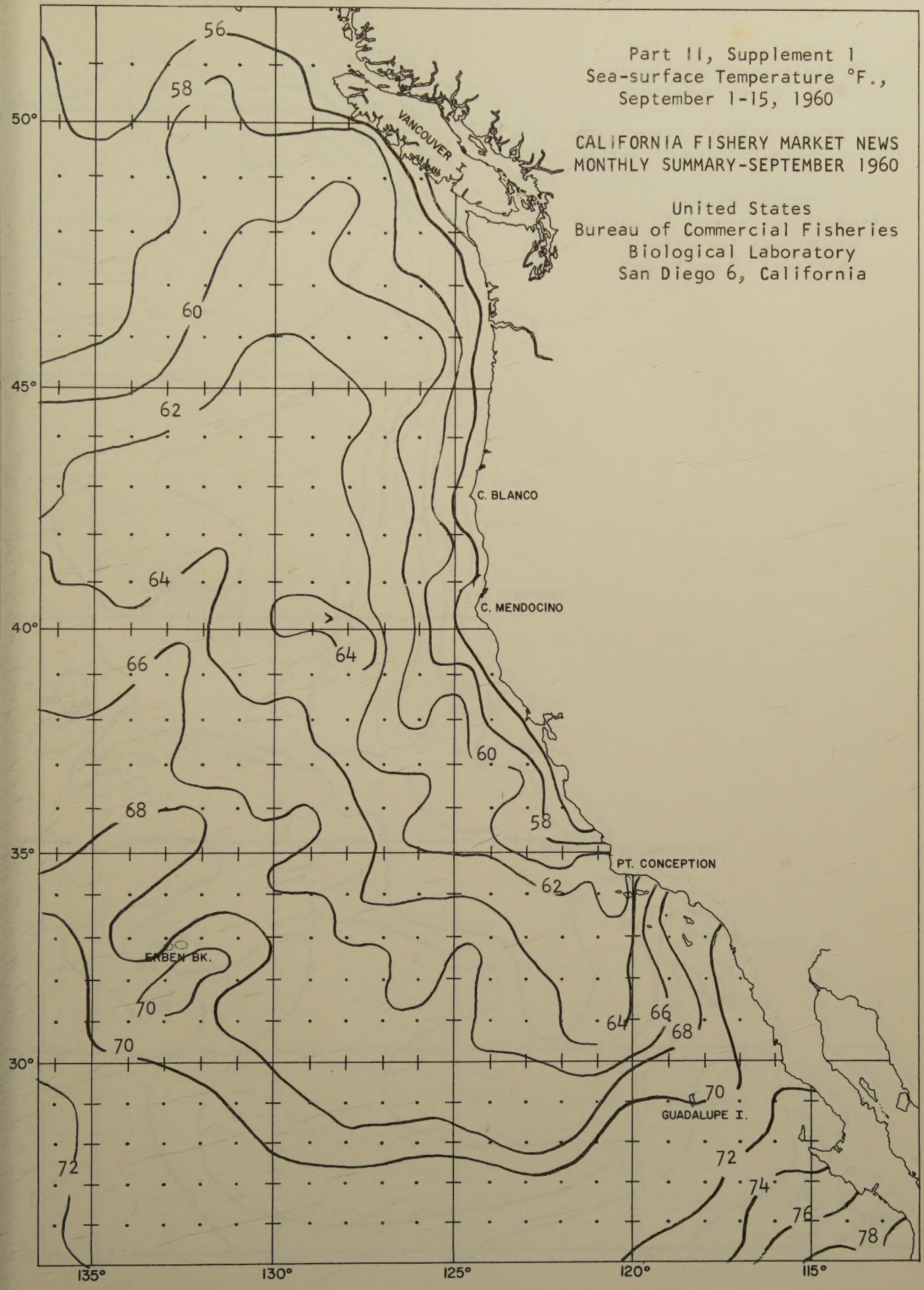
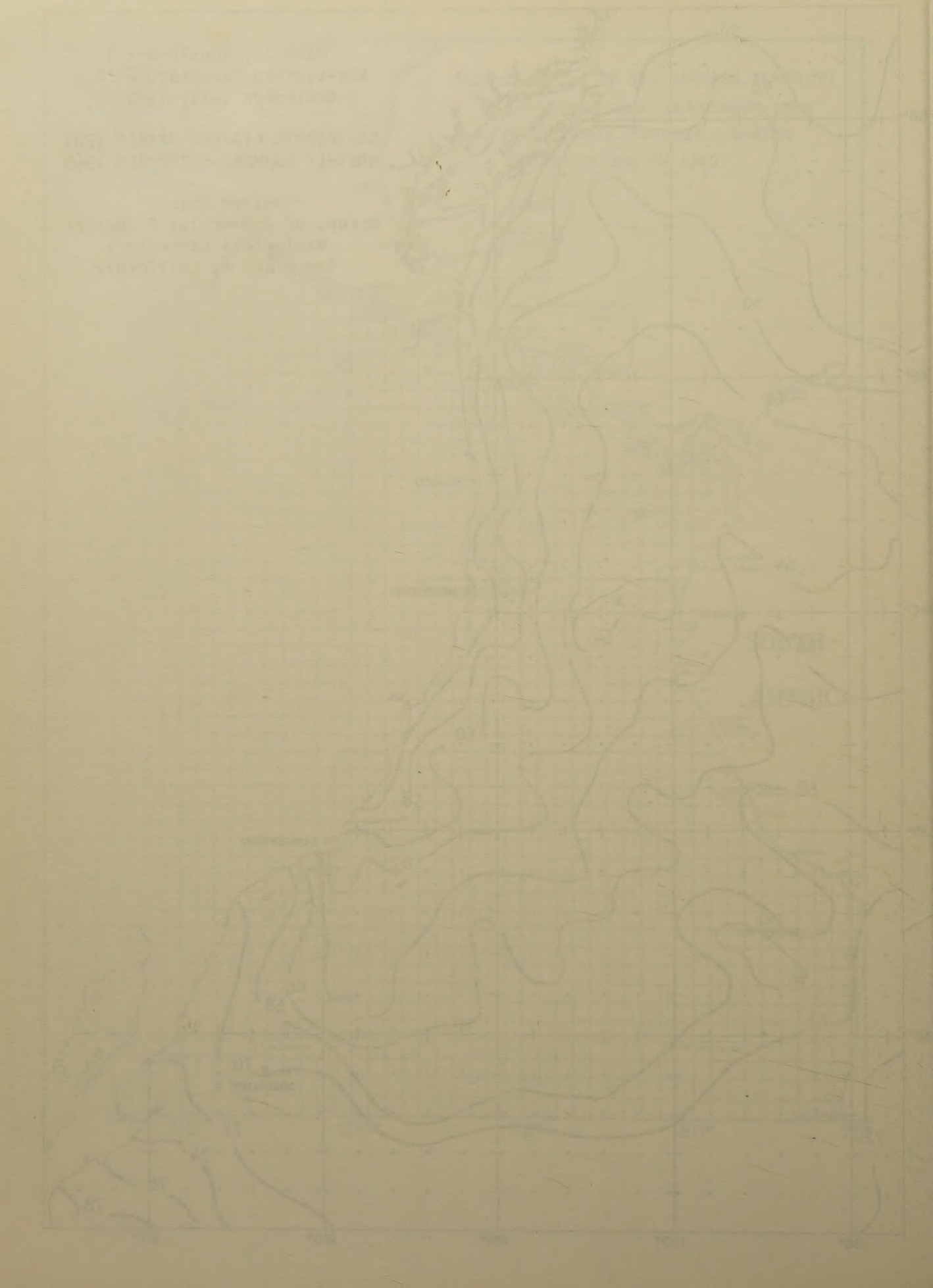
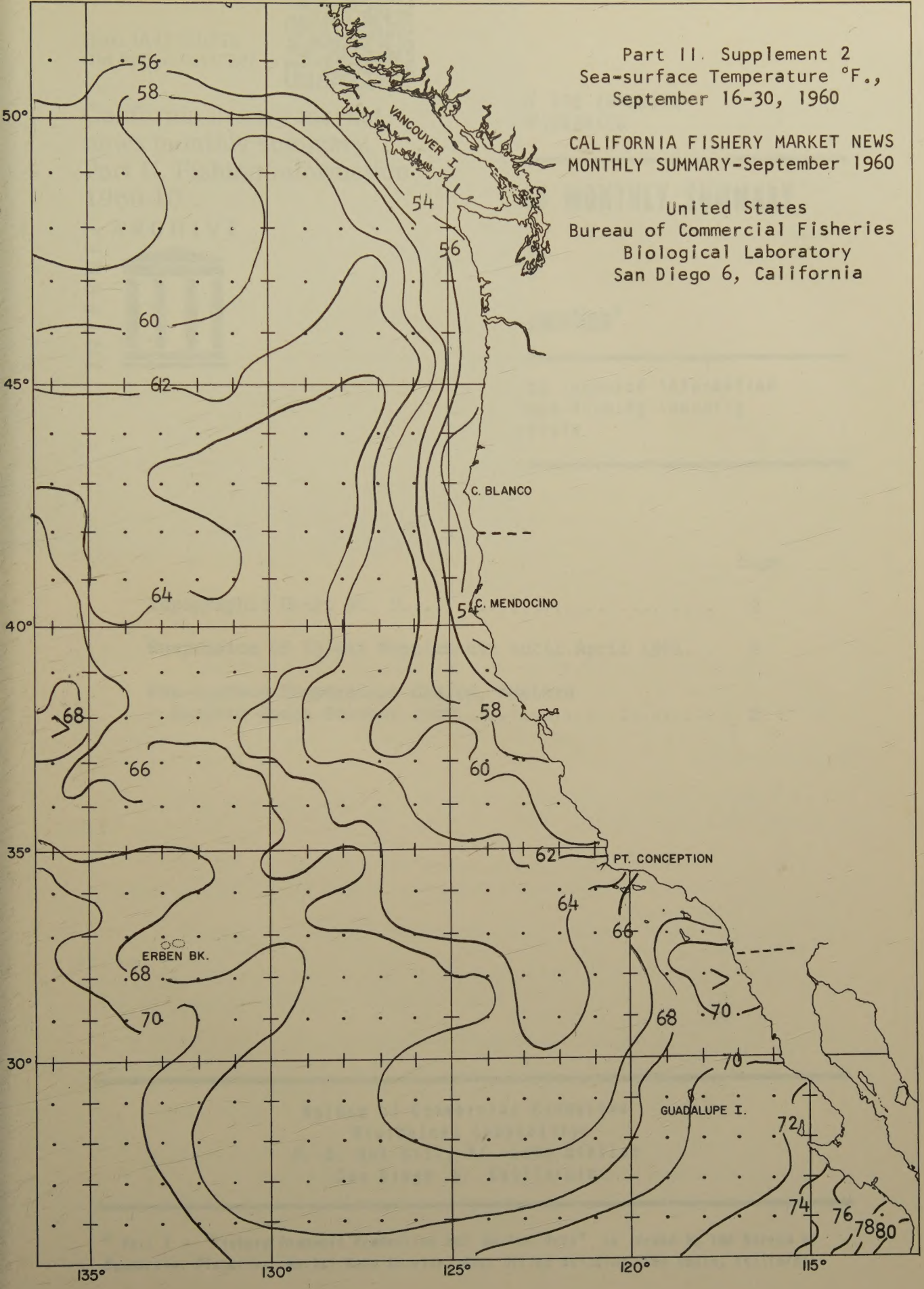


FIG.5-DEVIATION OF SEA SURFACE TEMPS.(°F)
SEPTEMBER 1960- SEPTEMBER 1959
BY 1-DEGREE SQUARES. SHADED
AREAS COLDER IN 1960
MEXICO
SOUTH
AMERICA
Guaymas
Alamos
C. San Lucas
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
GUATEMALA
HONDURAS
Champerico
San Jose
La Union
NICARAGUA
Corinto
Managua
COSTA RICA
Panama
Balboa
Cristobal
Chipperton I
Coops I
GALAPAGOS IS
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
P. Paita
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablamaves
Pisco
Chala
Mollendo
Salas y Gomez
S. Felix & S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


Part II, Supplement 1
Sea-surface Temperature °F.,
September 1-15, 1960
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY-SEPTEMBER 1960
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
56
58
60
62
64
66
68
70
72
74
76
78
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°




Part II. Supplement 2
Sea-surface Temperature °F.,
September 16-30, 1960
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY-September 1960
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°
56
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